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| I have . . .  **Newton’s 1st Law**  Who has . . .  the force of attraction  between any two  objects due to mass. | I have . . .  **gravity**  Who has . . .  a push or a pull exerted on an  object. | I have . . .  **force**  Who has . . .  the tendency of any  object to resist  a change in motion. | I have . . .  **inertia**  Who has . . .  a force that opposes  the motion of one object moving past another. |
| I have . . .  **friction**  Who has . . .  how fast an object’s position changes at any moment. | I have . . .  **speed**  Who has . . .  the speed and direction of a moving object. | I have . . .  **velocity**  Who has . . .  a change in velocity over time. | I have . . .  **acceleration**  Who has . . .  forces that cancel  each other out. |
| I have . . .  **balanced forces**  Who has . . .  forces that do not cancel each other out. | I have . . .  **unbalanced forces**  Who has . . .  the force one object applies to a second object. | I have . . .  **action**  Who has . . .  the force one object applies to a second  object. | I have . . .  **reaction**  Who has . . .  the force of gravity between Earth and an object. |

Simple Machines and Motion, p. 1